Approved FSECRET e 2003/12/19 : CIA-RDP78T04759A008400010009-6

PHOTOGRAPHIC INTERPRETATION REPORT



# PETROPAVLOVSKKAMCHATSKIY SINGLE HEXADIC ARRAY FACILITY (POSSIBLY SNEDS ASSOCIATED) USSR

25X1

FEBRUARY 1968
COPY 166
4 PAGES

25X1

Declass Review by NIMA/DOD

GROUP 1 EXCLUDED FROM AUTOMATIC DOWNGRADING AND DECLASSIFICATION

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# PETROPAVLOSK-KAMCHATSKIY SINGLE HEXADIC ARRAY FACILITY (POSSIBLY SNEDS ASSOCIATED) USSR

### INTRODUCTION

The Petropavlovsk-Kamchatskiy Single Hexadic Array is the fifth facility of this type identified to date in the USSR. The 4 other identified facilities were previously reported 1/ and all 5 are possibly associated with the Soviet Nuclear Energy Detection System (SNEDS). The hexadic arrays may be components of the SNEDS outstation signature. The function of the hexadic arrays is not fully understood; however, they may have both a natural and a nuclear event detection capability. A more complete description of the SNEDS has been previously published. 1/

### PETROPAVLOVSK-KAMCHATSKIY SINGLE **HEXADIC ARRAY FACILITY**

The single hexadic array facility is 6 nautical miles (nm) east-northeast of Petropavlovsk-Kamchatskiy at 53-04-20N 158-51-00E. The facility consists of a single hexadic array with 4 longer radials which have an average cross-leg diameter and 2 shorter radials. Six instrumentation positions, each with an object of undetermined dimensions, are at the end of each radial. Each radial appears as a cable scar.

Adjacent to the hexadic array is a small secured instrumentation control area which contains an instrumentation control building and a small support building. Two masts and numerous small objects of unidentified function are also within the security fence of the instrumentation control area. Together, they suggest the presence of additional instrumentation.

One signature item common to this facility and several of the other hexadic array facilities previously reported is the apron approximately

of undetermined function.25X1D However, this particular apron is semicircular and those previously identified were all circular. A small piece of equipment which does not exhibit significant relief can be observed at the center of the semicircular apron. A second feature not observed at the other facilities is a small piece of probable instrumentation equipment which is positioned in the northeast corner of the secured instrumentation control area. This equipment includes a structure with an 25X1D adjacent pattern of 6 small objects of undetermined size which are arranged radially about a seventh object. This pattern has a mean radial diameter of 10 feet.

### Support and Housing Area

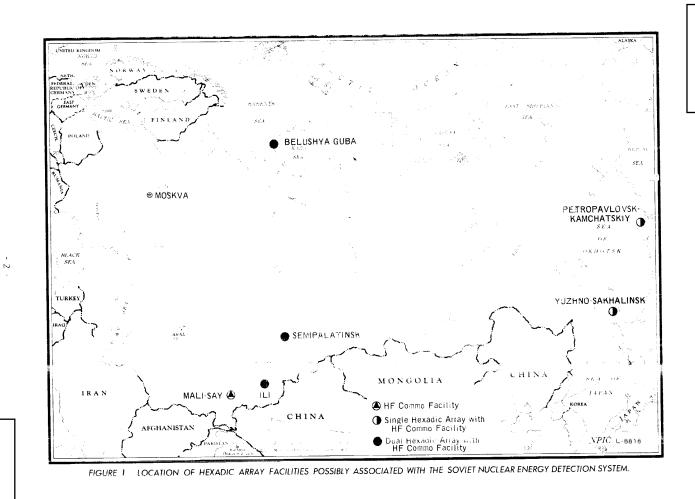
A support and housing area is approximately 1,500 feet northwest of the hexadic array. The physical boundaries of the support and housing area are rather indefinite since a SAM support area and an SA-3 SAM assembly facility are in the same vicinity. It would appear that the support and housing area contains at least 25 buildings of various function.

## **Associated Communications Facility**

A small high-frequency (HF) communications antenna field is approximately 1,000 feet northnortheast of the support and housing area. The facility contains a control building and an unresolved number of HF antennas. The exact number, type, and orientation is undetermined due to photographic interpretation being limited by low sun angle and vegetation. However, the antenna pattern suggests double rhombic antennas. An HF/direction finding (DF) KRUG facility and support area are 1.5 nm southeast of the hexadic

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25X1	Approved For Release 2003/12/19: C	IA-RDP78T04759A008400010009-6	<b>25</b> ×1
5X1 5X1 5X1D	array. At least two 3-2-2-3 fishbone antennas, orientation undetermined due to photographic interpretability limited by low sun angle and vegetation, and numerous masts are adjacent to the HF/DF KRUG support area.  Negation Information  The hexadic array facility cannot be negated on available photography. The facility can be first observed on Mis-	snow and haze preclude detailed interpretation of the facility. Subsequent photographic coverage does not indicate any significant changes in the facility since photography.  No correlation of this possibly SNEDS-associated facility with any other known electronic facility in the area can be ascertained from available photography other than the connection by road to a KRUG antenna facility 1.5 nm southeast which has been previously reported. 2/	25X1D
	REFERENCES		25X1D
	MAPS OR CHARTS		
5X1 5X1	1. NPIC. Hexadic Array Facilities Poss 67 (TOP SECRET	ibly Associated With the Soviet Nuclear Energy Detection System, Jul na Facility I, USSR, Oct 65 (TOP SECRET	] 25X1

Approved For Release 205 April 9 : CIA-RDP78T04759A008400010009-6

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